

Richard Sybert Jr.

Full Stack Web Developer & AI Training Specialist

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Professional Summary

Experienced Full Stack Web Developer and AI Training Specialist with 15+ years in software development, web technologies, and data science. Proven expertise in modern frameworks including Laravel, React, Vue.js, and Node.js. Currently contributing to cutting-edge AI model training while developing innovative AI-powered applications and GitHub Copilot integrations.

Key Specializations:

- Full Stack Web Development (LAMP Stack, Laravel, CodeIgniter)
 - AI Model Training & Data Science
 - GitHub Copilot AI Development & Integration
 - AI-Powered Application Development
 - Frontend Technologies (React, Vue.js, Bootstrap)
 - Technical Writing & Documentation
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Professional Experience

AI Developer & GitHub Copilot Specialist | *Recent Projects*

Independent Development • Las Vegas, NV • October 2024 - Present

- Develop innovative AI-powered applications leveraging GitHub Copilot and advanced AI models
- Create intelligent code generation tools and automated development workflows
- Build comprehensive data analysis and visualization platforms
- Design interactive political and electoral data interpretation systems
- Implement collaborative code management and storage solutions

Recent AI Applications Developed:

- **Presidential Voting Analysis & Code Storage Platform:** codestorage.vercel.app - Comprehensive Next.js application with Supabase SQL integration featuring interactive electoral data analysis, real-time voting trend visualization, and demographic insights. Incorporates GitHub Copilot-powered code management with intelligent organization, automated tagging, search functionality, and collaborative development

tools. Features dynamic dashboards, predictive analytics, and responsive design for both political data interpretation and seamless developer workflow optimization.

- **Code Generation Assistant:** Custom AI tools for automated boilerplate code creation

GitHub Repository: github.com/Rsyptjr/code_storage

Technologies: GitHub Copilot API, OpenAI GPT models, Next.js, Supabase, Python, Node.js, TypeScript

Data Scientists - AI Training | *Remote Contract*

Outlier • Las Vegas, NV • *March 2024 - Present*

- Train generative AI models for advanced data analysis and code generation
- Develop AI large language models for improved coding and data science documentation
- Solve complex data problems including generation, cleaning, visualization, and ML modeling
- Optimize code for maximum efficiency and write comprehensive test cases
- Create human-readable problem summaries and solution evaluations

Key Achievements:

- Successfully trained multiple AI models on discrete, highly variable problem sets
- Improved model proficiency in data analysis and code generation tasks

Full Stack Web Developer | *Self-Employed*

Portfolio Development • Las Vegas, NV • *December 2021 - Present*

- Developed and maintain comprehensive web portfolio showcasing modern technologies
- Built applications using Laravel Mix with React, React Hooks, and React Bootstrap
- Created interactive voting system: laravelvotes.rsypertjr.net
- Implemented responsive design patterns and modern UI/UX principles

Technologies Used: Laravel, React, Bootstrap, PHP, MySQL, JavaScript

Frontend Developer

Northwest Doors LLC • Puyallup, WA • *November 2021 - December 2021*

- Developed custom drawing engine for garage door design system with embedded windows
- Implemented interactive SVG-based visualization tools
- Built responsive UI components using modern JavaScript frameworks

Technologies: JavaScript, Java Spring Boot, SVG, HTML5, CSS3, jQuery, Bootstrap

Web Developer

Townsquare Media/AnalyticOwl • Purchase, NY • *September 2018 - March 2020*

Development Environment:

- Visual Studio Code with PHP Debug extension
- LAMP stack development server
- Git version control, Node.js, Vue.js with devtools
- PostgreSQL with pgAdmin, Ubuntu 18.04/19.10

Key Contributions:

Node.js Development:

- Built data conversion modules for Excel to CSV processing
- Implemented regex-based data filtering and formatting systems

PHP Backend Development:

- Created CSV to JSON parsing systems for frontend consumption
- Developed service and controller classes with new data model properties
- Implemented comprehensive PHPUnit testing with SQL-generated test data

Vue.js Frontend Development:

- Migrated legacy Twig/jQuery dashboards to modern Vue.js templates
- Integrated Semantic UI components for enhanced user experience
- Built data verification features to prevent duplications

Software Developer/Research Assistant

UNLV School of Life Sciences • Las Vegas, NV • *May 2012 - June 2012*

- Developed Organism Relation Ontology (ORO) Miner with hierarchical data visualization
- Created protein motif analysis program for amino acid pattern recognition
- Built hybrid node-based 2D graphs and interactive tree displays

Technologies: DHTML, CSS, XML, JavaScript, MySQL, SVG, PHP

Software Developer

InsureZone • Henderson, NV • *January 2011 - April 2011*

- Developed automated insurance quotation system using XML transformation
- Implemented XSLT and JavaScript for dynamic HTML generation
- Created state-specific insurance rule engines

Technologies: XSLT, JavaScript, AJAX, XML, HTML, Perforce

Documentation Specialist

Power Efficiency Corporation • Las Vegas, NV • *August 2010 - October 2010*

- Created technical manuals using Adobe InDesign for motor efficiency controllers
- Developed web-based knowledge repository using Visual Studio 2010 and LINQ-to-SQL

- Improved engineering documentation and corporate processes

Environmental Health Engineer

Southern Nevada Health District • Las Vegas, NV • *September 2005 - March 2006*

- Reviewed residential and commercial development site plans
- Ensured water and sewer designs met county safety standards
- Utilized AutoCAD and ArcView GIS for plan analysis

Senior Process Engineer

Allied-Signal Aerospace • Kansas City, MO • *May 1983 - February 1991*

- Led engineering support for PCB factory chemical/mechanical processes
 - Managed procurement and implementation of computer-automated optical inspection systems
 - Designed automation algorithms and software interfaces
 - Collaborated with cross-functional teams on system optimization
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Education

B.S. in Mechanical Engineering

The University of Kansas • Lawrence, KS • 1980-1983

Computer Science Studies

University of Nevada Las Vegas • Las Vegas, NV • 1998-2001

Psychology Studies

Community College of Southern Nevada • Las Vegas, NV • 1996-2002

Technical Skills

Programming Languages

- **Frontend:** JavaScript (ES6+), HTML5, CSS3, React, Vue.js
- **Backend:** PHP, Node.js, Java, Python
- **Database:** MySQL, PostgreSQL, SQL

Frameworks & Libraries

- **PHP:** Laravel, CodeIgniter, Slim3
- **JavaScript:** React (Hooks), Vue.js, jQuery, Bootstrap
- **CSS:** Tailwind CSS, Semantic UI, Material UI

Development Tools

- **IDEs:** Visual Studio Code, Visual Studio

- **Version Control:** Git, Perforce
- **Package Managers:** NPM, Composer, Gulp
- **Database Tools:** pgAdmin, MySQL Workbench
- **Design:** Adobe InDesign, SVG, AutoCAD

Specialized Technologies

- **AI/ML:** GitHub Copilot API, OpenAI GPT Models, AI Model Training, Data Science, Machine Learning
- **AI Development:** Intelligent Code Generation, Automated Workflows
- **Web Technologies:** LAMP Stack, RESTful APIs, AJAX
- **Data Processing:** XML, XSLT, JSON, CSV processing
- **System Administration:** Ubuntu Linux, Command Line Tools

Additional Skills

- Technical Writing & Documentation
- Data Visualization & Analysis
- Test-Driven Development (TDD)
- Agile Development Methodologies
- UI/UX Design Principles

Key Achievements

- **GitHub Copilot Innovation:** Developed cutting-edge AI-powered applications using GitHub Copilot API and advanced language models
- **AI Application Development:** Created intelligent document processing and code generation tools with automated workflows
- **AI Training Excellence:** Successfully trained multiple generative AI models for improved data analysis capabilities
- **Portfolio Development:** Built comprehensive web portfolio demonstrating modern full-stack capabilities
- **Technical Innovation:** Developed custom drawing engine system and AI-powered document conversion tools
- **Process Optimization:** Led implementation of automated optical inspection systems and AI-enhanced development workflows
- **Cross-Platform Expertise:** Successfully worked across diverse industries from aerospace to cutting-edge AI development

References available upon request